IN THE SPECIFICATION

Please amend the paragraph beginning on page 63, line 10 as follows:

- - In more detail, and referring to Figure 41, a state diagram is shown for an embodiment of the present invention. Steps according to the state diagram include: turning the system power on (step 730) and performing desired data entry. This data entry (step 732) may include entering such information as catheter size, target temperature, rate or period of cooling or warming, and so on. Then the catheter and its accompanying circulation set may be connected to each other and to the console. The system may then be purged (step 734). Following this, the system is in the 'stop' mode (step 736), and the catheter may be inspected, inserted, etc. If desired, the system may enter a patient temperature mode in ~~what~~ which the catheter-mounted thermistor may be employed to determine a control temperature (step 738). In this case, a delay of some 'X' seconds is caused to occur (step 740), followed by temperature measurement and averaging (step 744) over Y seconds. Depending on catheter size, X can range from zero seconds to, e.g., 24 seconds or more. Following X, during Y, various temperatures can be measured, or otherwise determined, including $T_{HTE}(t)$, $T(t)_{CONTROL}$, and $T(t)_{MONITOR}$. These may be acquired at, e.g., 10 Hz or such other frequency as may be desired. The average trend, with respect to time, of the temperature of the patient may be approximated by the average trend of the temperature of the HTE, i.e.,

$$T_P(t) \cong T_{HTE}(t) \text{ - -}$$

Please amend the paragraph beginning on page 64, line 1 as follows:

- - The patient temperature may then be displayed, e.g., for 2 seconds (step 746). The run mode may then be entered (step 742), and the patient cooled or warmed. The servo error may then be determined (step 744). Once the size of the servo error is determined, the interval, over which it is safe to run in maximum cooling or heating mode, may then be determined (step 748). After this interval, the system pump is stopped and a projection mode of the control temperature (step 782) is entered. The time the system is stopped may be, e.g., 10 seconds to 45 seconds, such as 15 seconds or 30 seconds. The projected temperature may then be the basis for future calculations and, if desired, may be displayed. - -